

GEN-IL-02-17

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8/12/80



ecology and environment, inc.

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International Specialists in the Environmental Sciences

EPA Region 5 Records Ctr.



354433

DATE: August 12, 1980

TO: Rene Van Someren

FROM: Ann C. Weaver

SUBJECT: Illinois/Eckhart Report
Joliet/Stauffer Chemical 13 19

A Preliminary Assessment Form (USEPA Form T2070-2) has been completed for the subject site. This site was listed on the Illinois-Eckhart Report and has been researched pursuant to TDD# F5-8005-2.

After completing a review of the limited data available, it is suggested that the following steps be taken to determine the final disposition of this complaint site.

Site is low priority. IEPA has been involved in surveillance activities and should continue any follow up inspections.

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1. COST CENTER EP-985-4	TECHNICAL DIRECTION DOCUMENT (TDD) UNCONTROLLED HAZARDOUS WASTE SITE PROJECT ecology and environment, inc.			2. No. _____
3. Priority: <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4. Authorized Overtime <input type="checkbox"/> Yes <input type="checkbox"/> No	5. EPA Site Identification Number _____	6. Completion Date: _____	7. Reference Info: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Attached <input type="checkbox"/> Pick Up
8. General Task Description: <u>CONFIRM THAT IEPA IS INITIATING A SAMPLING AND SURVEILLANCE PROGRAM AT STAUFFER CHEMICAL OF JOLIET BE APPRAISED OF ALL IEPA WORK AND OFFER OUR SERVICES</u>				
9. Specific Elements: <u>1) CONFIRM IN WRITING THAT IEPA IS INITIATING A SAMPLING AND SURVEILLANCE PROGRAM ON THE LIMESTONE QUARRY PIT WHICH SERVED AS A RUNOFF + RETENTION BASIN</u> <u>2) OFFER OUR ASSISTANCE AND SERVICES TO IEPA FOR WORK AT THIS SITE</u> <u>3) ASK IEPA TO COPY US ON ALL FUTURE SAMPLING RESULTS AND REPORTS</u>			10. Interim Deadlines _____ _____ _____ _____ _____ _____ _____	
11. Desired Report Form: Formal Report <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing <input type="checkbox"/> Other (Specify): _____				
12. COMMENTS: _____ _____ _____				
13. Authorizing DPO: _____ (Signature)			14. Date: _____	
15. Received By: <input type="checkbox"/> Accepted <input type="checkbox"/> Accepted with exceptions <input type="checkbox"/> Rejected _____ (FITL Signature)			16. Date: _____	

Exceptions Comments From (15)

Sheet 1 White — FITL Copy
 Sheet 2 Canary — DPO Copy
 Sheet 3 Pink — Contracting Officer's Copy (Washington, D. C.)
 Sheet 4 Goldenrod — Project Officer's Copy (Washington, D. C.)
 ☐ Photocopy to E & E NPM (Washington, D. C.)



POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION

V

SITE NUMBER (to be assigned by HQ)

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Illinois Joliet/Stauffer Chemical		B. STREET (or other identifier) Ingalls St. & Broadway	
C. CITY Joliet	D. STATE IL	E. ZIP CODE 60434	F. COUNTY NAME Will
G. OWNER/OPERATOR (if known) 1. NAME Stauffer Chemical Co. 636 California St. San Francisco, CA 94119		2. TELEPHONE NUMBER 815-757-3651	
H. TYPE OF OWNERSHIP 7 <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6. UNKNOWN			
I. SITE DESCRIPTION Chemical Plant totaling +17.8 acres; Alleged on site disposal of inorganic chemical wastes via landfilling, incineration, & surface impoundment.			
J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) Eckhart report			K. DATE IDENTIFIED (mo., day, & yr.)
L. PRINCIPAL STATE CONTACT 1. NAME Delbert Haschemeyer, IL EPA, Springfield, IL			2. TELEPHONE NUMBER 217-782-6760

II. PRELIMINARY ASSESSMENT (complete this section last)

A. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input checked="" type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE <input type="checkbox"/> 5. UNKNOWN		
B. RECOMMENDATION <input checked="" type="checkbox"/> 1. NO ACTION NEEDED (no hazard) <input type="checkbox"/> 2. IMMEDIATE SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 4. SITE INSPECTION NEEDED (low priority)		
C. PREPARER INFORMATION 1. NAME Clarence F. Bieze, Jr. 2. TELEPHONE NUMBER 312-663-9415 3. DATE (mo., day, & yr.) 6-24-80		

III. SITE INFORMATION

A. SITE STATUS <input type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.) <input checked="" type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.) *According to Eckhart Report <input type="checkbox"/> 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)	
B. IS GENERATOR ON SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify generator's four-digit SIC Code):	
C. AREA OF SITE (in acres) 17.80 acres	D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES 1. LATITUDE (deg.-min.-sec.) 41°32'33" 2. LONGITUDE (deg.-min.-sec.) 88°05'00"
E. ARE THERE BUILDINGS ON THE SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify): Buildings consistent with chemical production	

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	* D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION	X	1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY	X	4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS. TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT	XX	6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

*Alleged disposal methods as per Eckhart Report; According to IL EPA follow-up report, a limestone quarry-pit served as runoff & retention basin for chemical plant. Sodium metasilicate settled into the quarry base. This procedure discontinued in 1971. All waste now landfilled at accepted sites.

V. WASTE RELATED INFORMATION

A. WASTE TYPE

☒ 1. UNKNOWN ☐ 2. LIQUID ☒ 3. SOLID ☒ 4. SLUDGE ☐ 5. GAS

B. WASTE CHARACTERISTICS

☒ 1. UNKNOWN ☐ 2. CORROSIVE ☐ 3. IGNITABLE ☐ 4. RADIOACTIVE ☐ 5. HIGHLY VOLATILE
☐ 6. TOXIC ☐ 7. REACTIVE ☐ 8. INERT ☐ 9. FLAMMABLE

☐ 10. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.
 Inorganic chemical components (from Eckhart Report); Manifests of current disposal are available.

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
X	(1) PAINT, PIGMENTS	X	(1) OILY WASTES	X	(1) HALOGENATED SOLVENTS	X	(1) ACIDS	X	(1) FLYASH	X	(1) LABORATORY PHARMACEUT.
	(2) METALS SLUDGES		(2) OTHER (specify):		(2) NON-HALOGNTD. SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL
	(3) POTW				(3) OTHER (specify):		(3) CAUSTICS		(3) MILLING/ MINE TAILINGS		(3) RADIOACTIVE
	(4) ALUMINUM SLUDGE						(4) PESTICIDES		(4) FERROUS SMLTG. WASTES		(4) MUNICIPAL
	(5) OTHER (specify):						(5) DYES/INKS		(5) NON-FERROUS SMLTG. WASTES		(5) OTHER (specify):
							(6) CYANIDE	X	(6) OTHER (specify):		
							(7) PHENOLS		Sodium metasilicate		
							(8) HALOGENS				
							(9) PCB				
							(10) METALS				
							(11) OTHER (specify):				

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER	X			Low possibility of contamination via percolation thru 8 ft. yellow clay layer
8. CONTAMINATION OF SURFACE WATER	X			Possible via lateral movement along groundwater / surface water interface
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify)				

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

- ☒ 1. NPDES PERMIT IL 0002560-001 ☐ 2. SPCC PLAN ☐ 3. STATE PERMIT (specify): _____
- ☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER
- ☐ 7. RCRA STORER ☐ 8. RCRA TREATER ☐ 9. RCRA DISPOSER
- ☐ 10. OTHER (specify): _____

B. IN COMPLIANCE?

- ☐ 1. YES ☐ 2. NO ☒ 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number): _____

VIII. PAST REGULATORY ACTIONS

- ☒ A. NONE ☐ B. YES (summarize below)

IX. INSPECTION ACTIVITY (past or on-going)

- ☐ A. NONE ☐ B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
Inspection as per Eckhart report	1-23-80	DLPC/IL	Investigation of Eckhart Report Findings

X. REMEDIAL ACTIVITY (past or on-going)

- ☐ A. NONE ☒ B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
Sampling and surveillance program		EPA/IL	

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

Site: Stauffer Chemical Co.
Industrial Chemicals Division
Ingalls at N. Broadway
P.O. Box 639
Joliet, IL 60435
(815) 757-3651

1. Ownership
 - Stauffer Chemical Co.
636 California St.
San Francisco, CA 94119
2. Physical Description
 - a. Exact location
 - Latitude 41°deg, 32'min., 33"sec
Longitude 88°deg, 05'min, 00"sec
 - E1/2 of SE 1/4 of NE 1/4 of Section 4
of T.35 N. and R.1DE.
 - b. Size
 - Approximately 17.8 acres
 - c. Topography
 - Site is relatively flat, some
wetlands on southern section of site.
Des Plaines River on east side of
plant.
 - d. Site plans
 - Only available site plan is the 7 1/2
minute Joliet Quadrangle. See
attached quadrangle maps for property
boundaries and building locations.
 - e. Photos
 - Aerial photos available from Will
County. Presently on order.
3. Nature of Materials Stored or Disposed at site
 - a. Types of Containers
 - According to the Eckhart Report,
methods of disposal include mono
industrial waste landfill, mixed
industrial waste landfill, drummed
waste landfill, pits, ponds and
lagoons, and incineration.
 - Before 1961, plant was a tar oil
facility, before Cowles Chemical
acquired site (Cowles acquired by
Stauffer). No data available on
possible materials dumped on site
prior to 1961, or how it was dumped.
 - b. Types of wastes
 - Known types of waste are solids,
products and by-products of
industrial production.

c. Chemical

- During an IEPA inspection of site on January 23, 1980 by Mary Schroeder, she was informed by plant manager that a limestone quarry (on-site) had received sodium metasilicates. Quarry closed in 1971.
- Plant manufacturers anhydrous sodium metasilicates, sodium metasilicate pentahydrate, and anhydrous orthosilicate from soda ash and sand.

Description of Surrounding Area

Private residences

- The area along the complete western border of site.

b. Surface waters

- Site is bounded on east by Des Plaines River site also has wetlands in southern section of property.

Surrounding land use

- The area west of site is residential. The area east of the site across the river, is occupied by railyards. An industrial park and Joliet State Prison. The area to the north is an industrial site. The area to the south is a vacant industrial land.

d. Public Drinking

- Information not available.

5. Geology and Groundwater

a. Types of soils

- Limited information available on site. Attached well logs for Section 4 give some information. The material below plant is in the Sequence Yellow Clay, Gravel, Blue Clay, and Sand to a depth of 45 feet.

b. Depth to groundwater

- Permanent water table should be approximately at river level, which would mean it would be 10-20 feet below the surface at the site.

c. Direction of Groundwater Flow

- Not available

d. Estimates of Erosion & Runoff

- Not available

6. Flora and Fauna
 - a. Types of flora off-site/
on-site - Not available
 - b. Types of fauna off-site/
on-site - Not available
 - c. Endangered species - Not available
 - d. Indicator species - Not available
7. Climatic and air sources
 - a. Precipitation - Not available
 - b. Evaporation - Not available
 - c. Evaporatranspiration - Not available
 - d. Estimated filtration - Not available
 - e. Wind patterns and
velocities - Not available
 - f. Other meteorological data - Not available
8. Sampling and chemical analysis history
 - a. Status of State and Local
involvements - Site was one of the areas cited in the
Eckhart Report.
 - b. Permits - NPDES Permit #IL000256-001
 - c. Legal action - None known
 - d. Health departments - Not available
 - e. State and local plans - On January 23, 1980, Mary Schroeder of
IEPA made an on-site inspection in
response to the Eckhart Report. In her
report, she suggested that a sampling
and surveillance program be initiated
to determine the extent of pollution,
if any.
9. Known of alleged hazards
 - a. Illness cluster - Not available
 - b. Health problems - Not available
 - c. Potential Ecological
Impacts - Not available

d. Vector hazards

- Not available

10. Local Contacts

Delbert Haschemeyer
Illinois EPA
Springfield, IL
(217) 782-6760

Recommendations

Seriousness of problem is very low. No Federal action should be taken since IEPA will have initiated a sampling and surveillance program. IEPA documents suggest that potential problems on site are low.

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